WEST Search History

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DATE: Monday, August 14, 2006

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☐	L8	bayer.in. and bacteri$	141
☐	L9	L8 and pylori	19

END OF SEARCH HISTORY

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US 20020068347A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2002/0068347 A1

Taylor et al. (43) Pub. Date: Jun. 6, 2002

(54) NUCLEIC ACIDS ENCODING ALPHA-1,3 FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND EXPRESSING THEM

(75) Inventors: **Diane E. Taylor**, Edmonton (CA); **Zhongming Ge**, Edmonton (CA)

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(73) Assignee: **The Governers of the University of Alberta, a Canada corporation**

(21) Appl. No.: **09/733,524**

(22) Filed: **Dec. 7, 2000**

Related U.S. Application Data

(62) Division of application No. 09/092,315, filed on Jun. 5, 1998.

Publication Classification

(51) **Int. Cl.**[7] **C12N 9/10**; C12Q 1/68; G01N 33/543; C07H 21/04; C12P 21/02

(52) **U.S. Cl.** **435/193**; 435/6; 435/7.92; 435/325; 435/69.1; 536/23.2; 530/389.1

(57) **ABSTRACT**

A bacterial α1,3-fucosyltransferase gene and deduced amino acid sequence is provided. The gene is useful for preparing α1,3-fucosyltransferase polypeptide, and active fragment thereof, which can be used in the production of oligosaccharides such as Lewis X, Lewis Y, and siayl Lewis X, which are structurally similar to certain tumor-associated carbohydrate antigens found in mammals. These product glycoconjugates also have research and diagnostic utility in the development of assays to detect mammalian tumors. In addition the polypeptide of the invention can be used to develop diagnostic and research assays to determine the presence of *H. pylori* in human specimens.

-continued

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What is claimed is:

1. A substantially purified transmembrane segment-free α1,3-fucosyltransferase polypeptide.

2. The substantially purified transmembrane segment-free α1,3-fucosyltransferase of claim 1, wherein the polypeptide catalyzes the synthesis of Galβ 1-4[Fucα1-3] GlcNAc (Lewis X) or NeuAcα2-3-Galβ 1-4[Fucα1-3]GlcNAc (sialyl Lewis X).

3. The polypeptide of claim 1, wherein the polypeptide lacks α1,4-fucosyltransferase activity.

4. The polypeptide of claim 1, wherein the polypeptide lacks α1,2-fucosyltransferase activity.

5. The polypeptide of claim 1, wherein the polypeptide lacks α1,4-fucosyltransferase and α1,2-fucosyltransferase activity.

6. The polypeptide of claim 1, wherein the polypeptide has an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.

7. An isolated polynucleotide encoding the polypeptide of claim 1.

8. The polynucleotide of claim 7, wherein the sequence encodes the amino acid sequence selected from the group SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.

9. A substantially purified transmembrane segment-free α1,3-fucosyltransferase comprising a polypeptide having at least one repeat of the sequence comprising $X_1X_2LRX_3X_4Y$, wherein X_1 is D or N; X_2 is D or N; X_3 is I, V or A; X_4 is N or D.

10. A polynucleotide selected from the group consisting of:

a) SEQ ID NO: 4;

b) SEQ ID NO: 4, wherein T is U;

c) nucleic acid sequences complementary to a) or b); and

d) fragments of a), b), or c) that are at least 15 nucleotide bases in length and that hybridize to DNA which encodes any one of the polypeptide set forth in SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.

11. A vector containing the polynucleotide of claim 7.

12. A host cell containing the vector of claim 11.

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Search Results - Record(s) 1 through 17 of 17 returned.

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FUCOSYLAMIDE	1
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"FUCOSYLASIALO-GM.SUB.1"	2
FUCOSYLATATION	5
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File 73:EMBASE 1974-2006/Aug 14
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***File 349: For important information about IPCR/8 and forthcoming**
changes to the IC= index, see HELP NEWSIPCR.
File 5:Biosis Previews(R) 1969-2006/Aug W1
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Oct 2000

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Detailed Description
Claims
Fulltext Word Count: 16149
Publication Year: 2003
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2/9/1 (Item 1 from file: 155)
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12869845 PMID: 10998067
Synthesis of mono- and di-fucosylated type I Lewis blood group antigens by Helicobacter pylori.
Rasko D A; Wang G; Monteiro M A; Palcic M M; Taylor D E

Department of Medical Microbiology and Immunology, University of Alberta, Edmonton, Alberta, Canada. drask001@umaryland.edu
European journal of biochemistry / FEBS (GERMANY) Oct 2000, 267 (19) p6059-66, ISSN 0014-2956--Print Journal Code: 0107600
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed
Subfile: INDEX MEDICUS

The identification of Helicobacter pylori isolates that expresses exclusively type I Lewis antigens is necessary to determine the biosynthetic pathway of these antigens. Fast-atom bombardment MS provides evidence that the H. pylori isolate **UA1111** expresses predominantly Leb, with H type I and Lea in lesser amounts. Cloning and expression of the H. pylori fucosyltransferases (FucTs) allow comparisons with previously identified H. pylori enzymes and determination of the enzyme specificities. Although all FucTs, one alpha(1,2) FucT and two alpha(1,3/4) FucTs, appear to be functional in this isolate, their activities are lower and enzyme specificities are different to other H. pylori FucTs previously characterized. Studies of the cloned enzyme activities and mutational analysis indicate that Lea acts as the substrate for the synthesis of Leb. This is different from the human Leb biosynthetic pathway, but analogous to the biosynthetic pathway utilized by H. pylori for the production of Ley.

Descriptors: *Antigens, Bacterial--biosynthesis--BI; *Bacterial Proteins --metabolism--ME; *Fucose--metabolism--ME; *Fucosyltransferases--metabolism --ME; *Helicobacter pylori--enzymology--EN; *Lewis Blood-Group System --biosynthesis--BI; *Molecular Mimicry; *Oligosaccharides--biosynthesis--BI ; Amino Acid Sequence; Bacterial Proteins--genetics--GE; Base Sequence; Carbohydrate Sequence; Cloning, Molecular; Comparative Study; Enzyme-Linked Immunosorbent Assay; Frameshift Mutation; Fucosyltransferases--deficiency --DF; Fucosyltransferases--genetics--GE; Gene Targeting; Glycosylation; Helicobacter pylori--genetics--GE; Helicobacter pylori--immunology--IM; Humans; Molecular Sequence Data; Research Support, Non-U.S. Gov't; Spectrometry, Mass, Fast Atom Bombardment
CAS Registry No.: 0 (Antigens, Bacterial); 0 (Bacterial Proteins); 0 (Lewis Blood-Group System); 0 (Lewis Y antigen); 0 (Oligosaccharides); 0 (galactopyranosyl-1-3-galactopyranosyl-1-3(4)-N-acetylglucosamine); 3713-31-3 (Fucose)
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SYSTEME ET PROCEDE DE DISTRIBUTION DE SUPPORTS A DIVERS DISPOSITIFS CLIENTS EN FONCTION DE LEURS CAPACITES
Patent Applicant/Assignee:
LIGHTSURF TECHNOLOGIES INC, 4th Floor, 110 Cooper Street, Santa Cruz, CA 95060-3901, US, US (Residence), US (Nationality)
Inventor(s):
MIETZ EGLI Paul, 116 Blueberry Drive, Scotts Valley, CA 95066, US,
KIRANI Shekhar, 109 Washburn Avenue, Capitola, CA 95010, US,

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  EASWAR Venkat, 10736 Linda Vista Drive, Cupertino, CA 95014, US,
Legal Representative:
  HICKMAN Paul L (agent), Perkins Cole LLP, 101 Jefferson Drive, Menlo
    Park, CA 94025-1114, US,
Patent and Priority Information (Country, Number, Date):
  Patent:               WO 200340893 A2-A3 20030515 (WO 0340893)
  Application:          WO 2002US36064 20021107  (PCT/WO US02036064)
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- ☐ tr Q17WZ9 _HELAC Fucosyltransferase [fuc] [Helicobacter acinonych
- ☐ tr Q9L8S4 _HELPY Alpha-1,3/4-fucosyltransferase [fucTa] [Helicoba
- ☐ tr Q1CSJ2 _HELPY Alpha 1,3-fucosyltransferase (EC 2.4.1.214) [HPA
- ☐ tr Q6ST35 _HELPY Alpha-1,4 fucosyltransferase [fucTIII] [Helicoba
- ☐ tr O25366 _HELPY Fucosyltransferase [HP_0651] [Helicobacter pylor
- ☐ tr O30511 _HELPY Alpha1,3-fucosyltransferase [fucT] [Helicobacter
- ☐ tr O25142 _HELPY Fucosyltransferase [HP_0379] [Helicobacter pylor
- ☐ tr Q9ZKD7 _HELPJ ALPHA-(1,3)-FUCOSYLTRANSFERASE [fucU] [Helicobac
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- ☐ tr Q9DGL0 _XENLA C-ret [Ret] [Xenopus laevis (African clawed frog
- ☐ tr Q59N72 _CANAL Hypothetical protein [CaO19.1116] [Candida albic

UniProtKB/TrEMBL entry O25142

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Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

Entry information

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Secondary accession numbers	None
Integrated into TrEMBL on	January 1, 1998
Sequence was last modified on	January 1, 1998 (Sequence version 1)
Annotations were last modified on	July 11, 2006 (Entry version 26)

Name and origin of the protein

Protein name	**Fucosyltransferase**
Synonyms	None
Gene name	OrderedLocusNames: HP_0379
From	Helicobacter pylori (Campylobacter pylori) [TaxID: 210] [HAMAP proteome]
Taxonomy	Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacterales; Helicobacteraceae; Helicobacter.

References

[1] NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
STRAIN=ATCC 700392 / 26695;
DOI=10.1038/41483; PubMed=9252185 [NCBI, ExPASy, EBI, Israel, Japan]
Tomb J.-F., White O., Kerlavage A.R., Clayton R.A., Sutton G.G., Fleischmann R.D., Ketc
K.A., Klenk H.-P., Gill S.R., Dougherty B.A., Nelson K.E., Quackenbush J., Zhou L., Kirkn
E.F., Peterson S.N., Loftus B.J., Richardson D.L., Dodson R.J., Khalak H.G., , Venter
"The complete genome sequence of the gastric pathogen Helicobacter pylori.";
Nature 388:539-547(1997).

Comments

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UniProtKB/TrEMBL entry O25366

[Entry info] [Name and origin] [References] [Comments] [Cross-references] [Keywords] [Features] [Sequence] [Tools]

Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.

Entry information

Entry name	**O25366_HELPY**
Primary accession number	**O25366**
Secondary accession numbers	None
Integrated into TrEMBL on	January 1, 1998
Sequence was last modified on	January 1, 1998 (Sequence version 1)
Annotations were last modified on	July 11, 2006 (Entry version 27)

Name and origin of the protein

Protein name	**Fucosyltransferase**
Synonyms	None
Gene name	OrderedLocusNames: HP_0651
From	Helicobacter pylori (Campylobacter pylori) [TaxID: 210] [HAMAP proteome]
Taxonomy	Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacterales; Helicobacteraceae; Helicobacter.

References

[1] NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
STRAIN=ATCC 700392 / 26695;
DOI=10.1038/41483; PubMed=9252185 [NCBI, ExPASy, EBI, Israel, Japan]
Tomb J.-F., White O., Kerlavage A.R., Clayton R.A., Sutton G.G., Fleischmann R.D., Ketc
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Comments

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